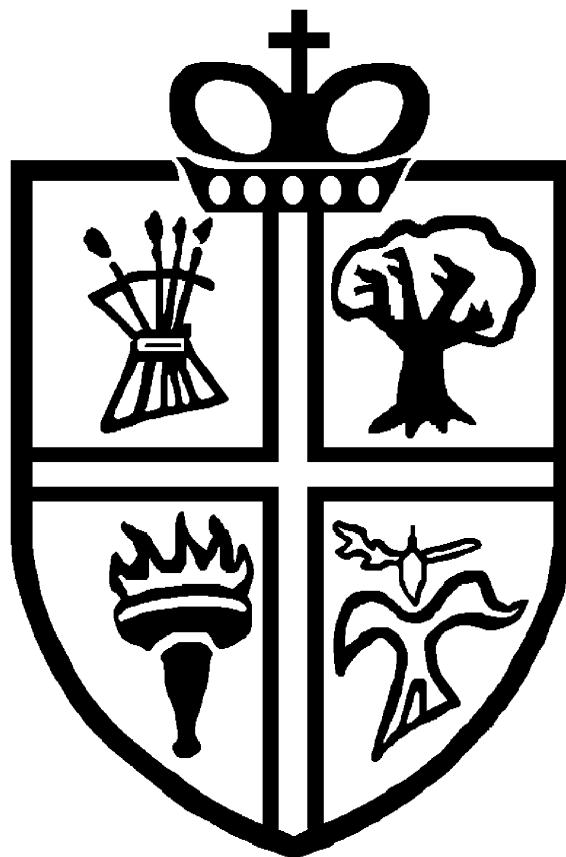


MILLER COMPREHENSIVE CATHOLIC HIGH SCHOOL



**Course Description Booklet
2022-2023**

On-line at www.rcsd.ca/miller

TABLE OF CONTENTS

EARNING CREDITS PLANNING FOR GRADUATION	3
ACADEMIC PATHWAYS (including RCSD Learning online)	4
COURSE DESCRIPTIONS:	
Catholic Studies	6
English Language Arts	8
English as Additional Language Classes	12
Français	14
French	15
Mathematics	16
Science	20
Native Studies/Social Studies	23
Social Sciences	26
Physical Education	27
Fine Arts	29
Practical and Applied Arts	32
Technology Studies.....	41

EARNING CREDITS – PLANNING FOR GRADUATION

Students earn one credit for each class they successfully complete at the Grade 10, Grade 11 and Grade 12 levels. Students require a minimum of 24 credits to graduate from high school. Once students begin Grade 10, they should start to keep track of the credits they earn.

Although the guidance counsellors check credits for graduation, it is the responsibility of each student to make sure that she/he has the requirements for graduation. In Grade 10 students can begin to access the High School Planner in **My Blueprint**, a career exploration program used by Regina Catholic Schools. It is an excellent tool for planning high school courses and ensuring graduation eligibility.

Compulsory Grade 10 Subjects:

ELA A10 / A11
ELA B10 / B11
Catholic Studies 10
Math 10 / 11
Science 10 / 11
History 10 / 11 or Native Studies 10

Grade 10's can take 4 elective subjects. Keep in mind that students must earn a Wellness or Phys Ed 20 or 30 credit in order to graduate.

Compulsory Grade 11 Subjects:

ELA 20 / 21
Catholic Studies 20
Math 20 / 21
Science 20 / 21

Grade 11's can take up to 6 electives and/or continue taking Grade 11 and 12 Math and Science courses. Students should plan to take their Social Science requirement in Grade 11.

Compulsory Grade 12 Subjects:

ELA A30 / 31
ELA B30 / 31
Catholic Studies 30
Social Studies 30 / 31 or Native Studies 30

Students must have 24 credits in order to be eligible for graduation. Of those 24 credits students must the compulsory subjects at each grade level and have the following:

- ✓ 5 credits must be at the 30 level
- ✓ Wellness 10 or a Phys. Ed. 20/30
- ✓ Math at the 20/21 level
- ✓ 1 Science at the 20/21 level
- ✓ 1 Social Science at the 20 or 30 level:
(Psychology 20/30, History 20, Native Studies 20, Law 30)

Note: Completion of graduation requirements will ensure a recognized Grade 12 standing, however post-secondary programs at universities, colleges and technical schools may have specific entrance criteria necessary for acceptance to their programs. As students make their course selections in Grades 10, 11 and 12 they should investigate the entrance criteria for specific post-secondary programs. See a guidance counsellor for assistance.

French Immersion Program:

To graduate with a Bilingual mention, students must take a minimum of 12 credits from the French Immersion subjects in Grades 10-12. In the Regina Catholic School Division, the following nine credits are compulsory:

Études Catholiques 10, 20, 30
Français 10, 20, 30
Sciences Sociale (Histoire) 10
Mathématiques 10 Fondements/pré-calcul
Sciences Sociales 30

Three compulsory English Language Arts credits are required to meet the credit requirements for graduation.

ELA A10 and/or ELAB10
ELA 20
ELA A30 and/or ELA B30

Please note: although only three English Language Arts credits are required to complete Grade 12 for French Immersion students, these three credits may not be sufficient to enter some post-secondary programs.

ACADEMIC PATHWAYS

ADVANCED PLACEMENT

The Advanced Placement (AP) Program, sponsored by the College Board, provides the means for secondary schools to provide university-level studies during secondary school. Students in Grades 11 and 12 may enroll in one or more 30 level AP courses if they meet the basic entry criteria. The AP Program provides college-level courses to the schools, coordinates the evaluation of the examinations, and sends the results of those examinations to the university of the students' choice. Participating universities, in turn, grant either credit or placement, or both, to students who have performed at a required level on the AP examination(s). AP courses currently being offered at Miller High School are AP English Literature and Composition, AP Calculus AB, AP Psychology, and AP Computer Science A (through Regina Catholic Schools Learning Online).

LEARNING RESOURCE PROGRAM

Miller Comprehensive Catholic High School offers a Learning Resource Program for those students needing extra support to successfully complete curricular outcomes. The Learning Resource Teacher may provide in class support or individual and small group support. Students in grade 9 through 12 may access the Learning Resource Program. Students have the option of receiving support from the learning resource teacher through a daily scheduled tutorial period (scheduling one of their class periods as daily tutorial) or a less frequently scheduled tutorial period (students meet in tutorial a few times a week for assistance).

MODIFIED COURSES

Miller Comprehensive Catholic High School offers modified courses. Modified courses follow many of the unit topics of their regular course counterparts; however, curricular outcomes have been modified to meet the needs of the learner. Students enrolled in modified courses do graduate with a grade 12 standing. However, it is important to note that modified courses may limit post secondary educational opportunities.

ALTERNATIVE COURSES

Miller Comprehensive Catholic High School offers an Alternative Education Program. This special education program allows students to continue to develop academic skills and important life skills. Courses in this special education program are locally developed. After formal educational assessments and referrals are completed, students may be enrolled in alternative education courses. Students who complete the Alternative Education program receive an Alternative Grade 12 Education standing.

ENGLISH AS AN ADDITIONAL LANGUAGE - SUPPORT

Miller Comprehensive Catholic High School offers support for students whose first language is not English. Academic and vocational assistance for English Language Learners (ELLs) is provided and may be required based upon the individual needs of the students.

A student's academic success is dependent on the acquisition of appropriate levels of English language proficiency. High school students who are new to the English language can benefit from explicit, targeted instruction in EAL. Targeted instruction focusing on ELLs' needs will help students to improve English language proficiency, which will positively impact academic success in all subject areas.

For complete descriptions of the Credit and Non-credit EAL course offerings, please see the English As An Additional Language Course Description section of this booklet.

REGINA CATHOLIC SCHOOLS LEARNING ONLINE

Regina Catholic Schools Learning Online provides faith-based distance education opportunities to students residing in Regina and the surrounding area. Learning Online has teachers based at all Regina Catholic High Schools with the program office at the Catholic Education Centre. Over 50 grade 9 to 12 courses are offered in Business Education, Catholic Studies, Humanities, Social Sciences, Mathematics, Sciences, Health and Wellness, Technology, and French Immersion.

Learning Online courses are asynchronous online courses. This means that students are able to work through their classes at their own pace and have flexibility as to where and when they work on their course material. Students are not required to log into the course at a specific time. All course work is completed on the computer, with the exception of the mathematics finals, which are paper and pencil exams.

Learning Online is a continuous intake online school. Students beginning in September/ February, will be expected to complete their course by the end of the semester. Students registering in October – December and March – May will have the time equivalent to one semester to complete their Learning Online course(s). Registrations for January or June start dates will require special administrative permission.

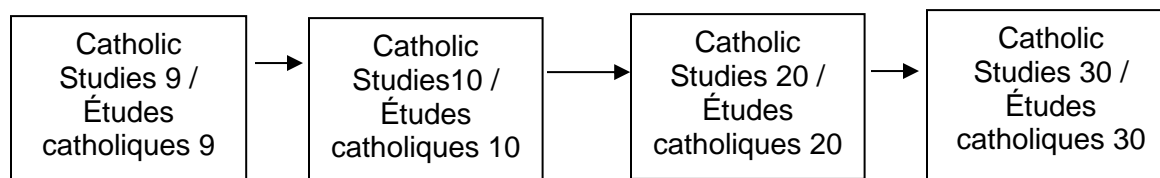
Each course has set due date guidelines that help students pace themselves through their course. Students who fall behind the set pace of the course, will need to spend additional time working to get caught up. Although there is some flexibility, all course work must be completed by the end of the semester. The dates can be found on our calendar. Students are able to work ahead in their course work and complete the class ahead of schedule.

Regular attendance and active participation in an online course is just as important as in a traditional face to face classroom. The Learning Online Active Engagement Practice, encourages students to access their course and stay on pace. Students who are not actively engaged in their courses are supported through check-ins, meetings, and academic contracts.

Students interested in RCSD Online learning should consult with a guidance counselor.

COURSE DESCRIPTIONS

CATHOLIC STUDIES



CATHOLIC STUDIES/ ÉTUDES CATHOLIQUES:

The aim of Catholic Studies is for students to understand, value, and engage in their faith so that they may hear an invitation, or deepen their commitment, to live as followers of Jesus Christ. Throughout all grades, students investigate, apply and reflect on various aspects of these actions that call upon the Church to:

- i. Proclaim Jesus Christ
- ii. Worship Christ through the sacraments
- iii. Form a communion of people
- iv. Give witness, and
- v. Serve.

CATHOLIC STUDIES 9 / Études catholiques 9:

Journeying in Faith with Community

The Catholic Studies 9 curriculum focuses in part on the importance of community in supporting and deepening one's faith. Students examine how the Catholic Church helps guide us in our ongoing faith journey.

CATHOLIC STUDIES 10/ Études catholiques 10:

Understanding the Call to Evangelize

Prerequisite – Catholic Studies 9 or Études catholiques 9

The Catholic Studies 10 curriculum focuses in part on the role and importance of evangelization. Students examine what it means to be called to evangelize and consider how and why the Church evangelizes.

CATHOLIC STUDIES 20: *Exploring the Joy of a Catholic Identity*

Prerequisite – Catholic Studies 10

The Catholic Studies 20 curriculum focuses in part on the role and importance of Catholic identity. Students examine what it means to live as a disciple of Christ and how this affects the way that one lives one's life.

ÉTUDES CATHOLIQUES 20

Prerequisite – Études catholiques 10

Theme : The Christian Story.

Unit 1: My Story: Talents and Gifts to Share, Giving Myself in Service / My Life Story – The Needs of Others

Unit 2: Our Story – Composition and Interpretation of Scripture

Unit 3: Jesus' Story - Message of Jesus, Jesus of History – Mission of Jesus, The Christian Testament – Jesus' Passion, Death, Resurrection and Ascension

CATHOLIC STUDIES 30: *Embracing Spiritual and Religious Life*

Prerequisite – *Catholic Studies 20*

The Catholic Studies 30 curriculum focuses in part on the importance of being both a spiritual and religious person. Students examine how they are called by God to freely choose a life of service for others that will help transform society and the world.

ÉTUDES CATHOLIQUES 30

Prerequisite – *Études catholiques 20*

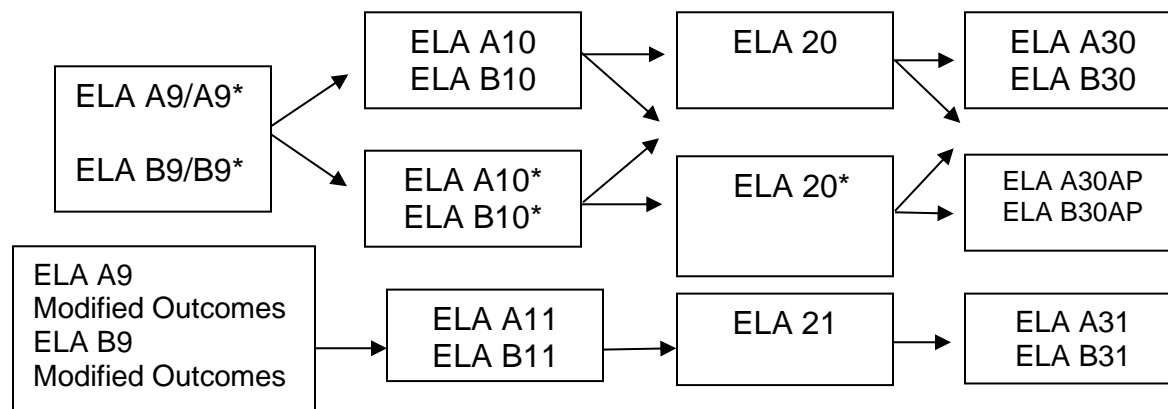
Theme: Christian Lifestyles

Unit 1: Living as a Christian in a Secular World - Christian Lifestyles

Who Am I? Relationships and Love, Commitment and Vocation Philosophy of Life, Sexuality,
Marriage and Family Life, Belief

Unit 2: Living Out one's Faith in a Secular World: World Religions

ENGLISH LANGUAGE ARTS



All English Language Arts (ELA) options with an * are Advanced courses that are recommended for students considering 30-level AP courses for ELA

ENGLISH LANGUAGE ARTS A9 and B9 / A9* and B9* / ELA A9/B9 Modified Outcomes

The ELA A9 and B9 courses utilize an integrated literature and language approach focusing on the strands of reading, writing, listening, speaking, viewing, and representing. A variety of genre arranged thematically in the forms of fiction and non-fiction – short stories, novels, modern plays, essays, poetry, and multi-media – are explored to achieve the outcomes under the three course goals: Comprehending and Responding, Composing and Creating, and Assessing and Reflecting. In the ELA B9 course, a Shakespearean play is also studied.

ELA A9 themes:

Students will study a minimum of two of the following three thematic units:

Theme One: Conflicts, Challenges, and Choices: Do the Right Thing

Theme Two: Indigenous and Norse Narratives

Theme Three: All That I Am: The Search for Self

ELA B9 themes:

Students will study a minimum of two of the following three thematic units:

Theme One: Exploring Love, Loyalty, and Relationships

Theme Two: Surviving and Conquering

Theme Three: Exploring New Worlds, Imagining the Future

Note: The final mark for English Language Arts 9 is the average of ELA A9 & ELA B9.

The **ELA A9* and ELA B9*** courses act as a scaffold in preparing students for the AP English Course at Grade 12. Enriched units of study, as well as more challenging selections and opportunities are provided. Students enrolling into this program, must note the following:

- The ultimate goal of Advanced ELA is to achieve a college level credit. The courses aim to continue an enriched understanding of reading and writing with intensive analysis and synthesis of literature.
- This Advanced ELA course is geared towards students who are preferably already reading and writing above grade level.
- Pre-determined summer reading will be required and distributed in June to be graded.

The **ELA A9 and ELA B9 Modified Outcomes** courses follow the same themes/units outlined above with modifications to foster student success.

ENGLISH LANGUAGE ARTS A10 / A10* / A11

****Prerequisite**** – ELA 09

The ELA A10 provides meaningful contexts that address “big ideas” and questions for deeper understanding. There is a strong focus on language and an understanding of how it works as students learn using powerful cognitive and communication strategies. A variety of genre arranged thematically in the forms of fiction and non-fiction – short stories, novels, modern plays, essays, poetry, and multi-media – are explored to achieve the outcomes under the following categories: Comprehending and Responding, Composing and Creating, and Assessing and Reflecting.

The two themes covered are:

Themes:

The Challenges of Life:

- Explaining the World through our Foundational Stories
- Destiny and Challenges of Life
- Human Existence; Decisions

The Mysteries of Life:

- The Joys of Mind, Body, and Spirit
- Mysteries of the Human Brain and Imagination
- Mysteries of this World and Beyond; The Fantastic

The modified **ELA A11** course follows the same themes as the ELA A10 course with modifications to foster student success.

ENGLISH LANGUAGE ARTS B10 / B10* / B11

****Prerequisite**** – ELA 09

The ELA B10 provides meaningful contexts that address “big ideas” and questions for deeper understanding. There is a strong focus on language and an understanding of how it works as students learn using powerful cognitive and communication strategies. A variety of genre arranged thematically in the forms of fiction and non-fiction – short stories, novels, modern plays, essays, poetry, and multi-media – are explored to achieve the outcomes under the following categories: Comprehending and Responding, Composing and Creating, and Assessing and Reflecting. The two themes covered are:

Themes:

Equity and Ethics

- Who and What is Right
- Empowerment
- Degrees of Responsibility
- Rights and Responsibilities
- Justice and Fairness

The World Around and Within Us

- Perspectives
- Diversity of Being
- The Natural and the Constructed Worlds
- Individuals and Communities; Stewardship

The **ELA B10*** and **ELA A10*** acts as a scaffold in preparing students for the AP English Course at Grade 12. Enriched units of study, as well as more challenging selections and opportunities are provided. Students enrolling into this program must note the following:

- The ultimate goal of Advanced ELA is to achieve a college level credit. The courses aim to continue an enriched understanding of reading and writing with intensive analysis and synthesis of literature.
- This Advanced ELA course is geared towards students who are preferably already reading and writing above grade level.
- Pre-determined summer reading will be required and distributed in June to be graded.

The modified **ELA B11** course follows the same themes/issues as the ELA B10 course with modifications to foster student success.

ENGLISH LANGUAGE ARTS 20 / 20* / 21

Prerequisite – *ELA A10 and ELA B10*

This course is organized around themes that are of interest to adolescents and focuses on self and society. A variety of genre arranged thematically in the forms of fiction and non-fiction – short stories, novels, modern plays, essays, poetry, and multi-media – are explored to achieve the outcomes under the following categories: Comprehending and Responding, Composing and Creating, and Assessing and Reflecting.

The two themes covered include:

Theme One: Starting Out – Beginning and Becoming

- The Past and the Present
- Triumphs and Trials
- Discovery and Disillusionment
- Relationships with Family and Others
- Celebrations and Rites of Passage

Theme Two: Moving Forward – Establishing and Realizing

- Turning Points and Transitions
- Evolving Roles and Responsibilities
- Opportunities and Obstacles
- Risks and Rewards
- Beliefs and Goals

The course **ELA 20*** acts as a scaffold in preparing students for the AP English Course at Grade 12. Enriched units of study, as well as more challenging selections and opportunities for independent study are provided. Students enrolling into this program, must note the following:

- The ultimate goal of Advanced ELA is to achieve a college level credit. The courses aim to continue an enriched understanding of reading and writing with intensive analysis and synthesis of literature.
- This Advance ELA course is geared towards students who are preferably already reading and writing above grade level.
- Pre-determined summer reading will be required and distributed in June to be graded.

The modified **ELA 21** course follows the same themes as the ELA 20 course with modifications to foster student success. English 20 *online* option

JOURNALISM 20

Prerequisite – *ELA A 10 and ELA B10*

Journalism 20 is concerned with the role of journalism in a democracy and with helping students grow in their language skills – particularly writing. The course will help students learn to gather, write, edit, publish and produce news and other information for print and electronic media. Students will also become knowledgeable about journalism and learn to organize their time, meet deadlines, think objectively, develop original styles, and gain experience in communicating clearly and effectively. This course has three Modules: Print Journalism, Electronic Journalism and On Assignment

ENGLISH LANGUAGE ARTS A30 / A31

Prerequisite – ELA 20/ELA 21

This course utilizes Canadian Literature to explore the issues that influence Canadian culture and identity. The students practice their language skills including comprehending and responding, composing, and creating, assessing and reflecting within the context of a variety of literary genres.

Two units are explored:

Unit One: Canadian Perspectives: Distinct and Rich

- Define the Individual
- Negotiate the Community
- Celebrate the Glorious, Acknowledge the Scandalous
- Shift Centres, Blur Margins
- Understand Beliefs
- Initiate Action

Unit Two: Canadian Landscapes: Diverse and Dynamic

- Natural and Constructed
- Psychological and Physical
- Historical and Contemporary
- Personal and Societal

The modified **ELA A31** course follows the same themes as the ELA A30 course with modifications to foster student success.

ENGLISH LANGUAGE ARTS B30 / B31

Prerequisite – ELA 20/ELA 21

This course focuses on World Literature. The students practice their language skills including comprehending and responding, composing, and creating, assessing, and reflecting. Themes are explored through a variety of literary genres including a Shakespearean play.

Two units explored are:

Unit One: The Search for Self

- Sense of Self
- Joy and Inspiration
- Doubt and Fear

Unit Two: The Social Experience

- Dealing with Universal Issues
- Ambition, Power, and the Common Good
- Social Criticism
- Addressing the Issues

The modified **ELA B31** course follows the same themes as the ELA B30 course with modifications to foster student success.

ELAA30 and ELAB30 **online** option

ENGLISH LANGUAGE ARTS A30 AND B30 ADVANCED PLACEMENT

Prerequisite– ELA 20

The English Literature and Composition course is offered through the College Board and is taught in combination with the Saskatchewan ELA A30 and ELA B30 curriculum. The board AP exam will be written in May and the outcome will be independent of the marks derived from ELA A30 and B30 courses. As well, students enrolling into this program, must note the following:

- The ultimate goal of Advanced ELA is to achieve a college level credit. The courses aim to continue an enriched understanding of reading and writing with intensive analysis and synthesis of literature.
- This Advanced ELA course is geared towards students who are preferably already reading and writing above grade level.
- Pre-determined summer reading will be required and distributed in June to be graded.

ENGLISH AS AN ADDITIONAL LANGUAGE

The individual objectives for each course allow the development of the students' skills in representing, speaking, listening, reading, and writing. Students are also expected to assess and reflect on their own skills.

English levels within each language skill determine a student's Canadian Language Benchmark (CLB), Common European Framework of Reference (CEFR), and their Locally Developed Language Proficiency Levels as stated in the Saskatchewan curriculum. These are used to determine which class options are the best for the student's placement.

English Level	CLB	CEFR / CFR	Curriculum Level	Class Options
Beginner	1 – Beg. Initial	A1.1	1	EAL B10L and/or EAL Tutorial
Upper Beginner	2 – Beg. Developing	A1.2	2	EAL B10L and/or EAL Tutorial
Pre-Intermediate	3 - 4 – Beg. Adequate and Fluent	A2.1	2 or 3	EAL A20L and/or EAL Tutorial
Lower Intermediate	4 – Int. Initial	A2.2	3	EAL A20L
Intermediate	5 - 6 Int. Initial and Developing	B1.1	4 or 5	EAL B20L
Upper Intermediate	7 - 8 Int. Adequate and Fluent	B1.2	5 or 6	SK Context for EAL Learners
Advanced	9 – 12 Advanced	B2.1 – C2.2	N/A	No Support

Non-Credit Courses offered:

GRADE 9 WRITING FUNDAMENTALS CLASS (EAL LITERACY or EAL TUTORIAL 9)

Students work on numerous aspects of literacy; some of which include: grammar, thematic vocabulary, speech and oral presentations, reading strategies, stages of writing, and parts of speech.

EAL TUTORIAL

Students from grade 9 to 12 may be required to receive extra assistance and take this course. Students work on numerous aspects of literacy and other coursework. Students focus on language skills in order to gain strategies to assist them in daily living and in their academic credited subjects.

Credit Courses offered:

EAL B10L: LEVELS 1 AND 2

Module 1:	Basic Communication
Module 2:	Elements of Time and Place
Module 3:	Focus on Health and Wellness
Module 4:	Cross-Cultural Connections

EAL A20L: LEVEL 3

(Elective Credit Course)

Prerequisite *EAL B10L or a CFR level of A1.2 or higher.*

- Module 1: School and Community
- Module 2: Canada
- Module 3: Customs and Cultures
- Module 4: Planning for the Future

EAL B20L: LEVEL 4

(Elective Credit Course)

Prerequisite *EAL A20L or a CFR level of A2.2 or higher.*

- Module 1: School and Community
- Module 2: Canada
- Module 3: Customs and Cultures
- Module 4: Planning for the Future

SASKATCHEWAN CONTEXT FOR EAL LEARNERS 20L

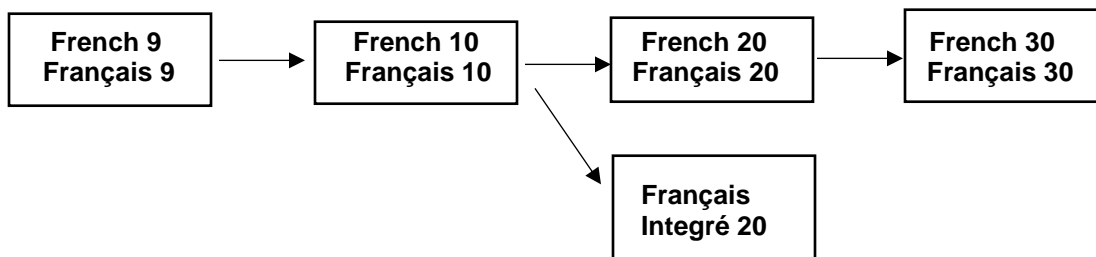
(Elective Credit Course)

Prerequisite *EAL B10L or a CFR level of A2.1 or higher; although, it is recommended that the student attain a CFR level of B1.1.*

This locally developed course is meant to give newcomers to Canada and Saskatchewan important skills and content with regards to being productive, contributing citizens. The course is designed to provide many opportunities for real-life situations and authentic based tasks within your community.

- Module 1: Recreation, cultural events, and my own culture in SK.
- Module 2: Community Resources and Laws in SK.
- Module 3: Democracy and My Rights and responsibilities in SK.
- Module 4: My Environmental Responsibilities in Canada

FRANÇAIS



FRANÇAIS 9

This course is designed for students who have chosen to pursue their education in the French Immersion program setting. The emphasis will be put on reading and writing abilities and on oral communication, which are all essential to the acquisition of a second language.

Unit 1: The Novel

Unit 2: Short Stories

Unit 3: Communication

Unit 4: Grammar (this unit is integrated throughout the other three)

FRANÇAIS 10

****Prerequisite**** - Français 9

This course will include an experiential dimension emphasizing communication and allowing the student to approach various themes and interesting subjects in order to encourage an authentic usage of the French language. There is also an analytical dimension allowing the student to correctly integrate the necessary knowledge of the language in comprehension and in production.

Unit 1: Journalism

Unit 2: Short stories

Unit 3: Songs and poetry

Unit 4: Grammar (this unit is integrated throughout the other three)

FRANÇAIS 20

****Prerequisite**** - Français 10

This course will include an experiential dimension emphasizing communication and allowing the student to approach various themes and interesting subjects in order to encourage an authentic usage of the French language. There is also an analytical dimension allowing the student to correctly integrate the necessary knowledge of the language in comprehension and in production.

Unit 1: Photo-novel and comic strips

Unit 2: Reporting and the electronic press

Unit 3: The Novel

Unit 4: Grammar (this unit is integrated throughout the other three)

FRANÇAIS 30

****Prerequisite**** - Français 20

This course will include an experiential dimension emphasizing communication and allowing the student to approach various themes and interesting subjects in order to encourage an authentic usage of the French language. There is also an analytical dimension allowing the student to correctly integrate the necessary knowledge of the language in comprehension and in production.

Unit 1: Theatre and a play

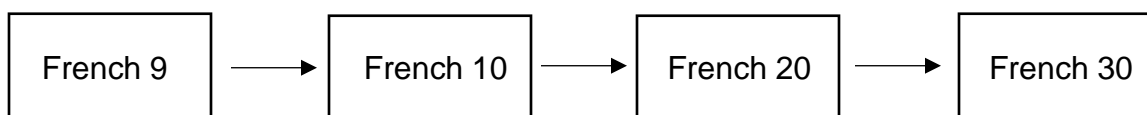
Unit 2: The novel

Unit 3: Advertising

Unit 4: Poetry and songs

Unit 5: Grammar (this unit is integrated throughout the other three)

FRENCH



FRENCH 9

This course is designed to allow students to learn the language by means of themes that focus on student experiences. Much of the instruction is in French, and students participate in individual, pairs and group activities to provide them with many opportunities to communicate orally in French. Students will develop listening, reading, comprehension and grammatical skills as they progress through the given thematic units.

FRENCH 10

In this course students build on their skills of oral communication. The units studied are based on experiences familiar to the students. Students are taught to write, read, listen to and comprehend language that can be used in real life situations. Each unit leads to a final task that requires students to use the vocabulary and linguistic components introduced throughout each unit.

FRENCH 20

****Prerequisite**** – French 10

In this course students continue to practice speaking French orally in their interaction with the teacher, a partner or a group. Grammar and vocabulary are taught in a communicative context, in situations which might be duplicated in real life. Each unit is structured to prepare students for a final task or project. The language functions and linguistic components that are necessary to accomplish the final tasks, determine what is covered in each unit.

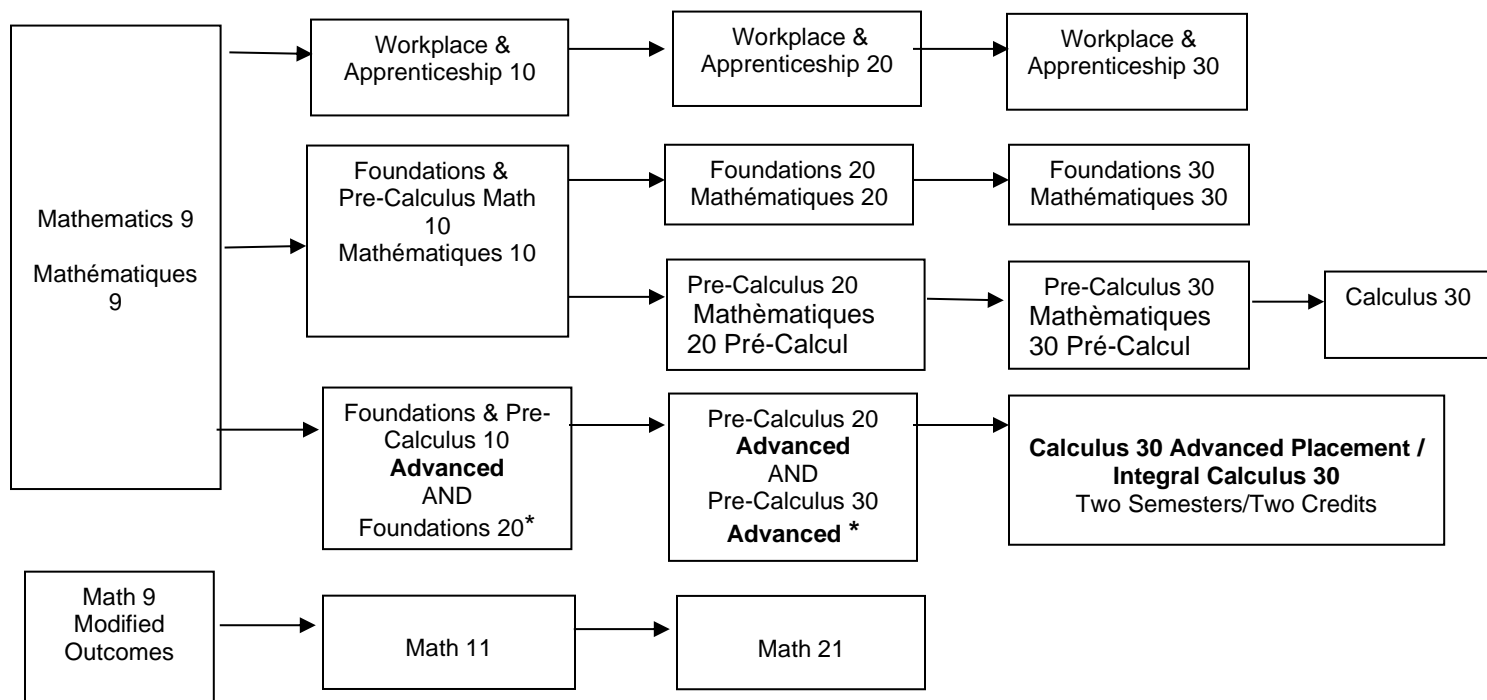
FRENCH 30

****Prerequisite**** – French 20

In this course students continue to develop their reading, comprehension, speaking, listening and writing skills. Units concentrate on themes familiar to students and lead to a final task that requires students to demonstrate their level of understanding and ability. Students can be expected to have a good grasp of basic French structures and vocabulary which can be further developed in university or by living in a French environment.

MATHEMATICS

* Any Grade 10 students who are considering AP Calculus for Grade 12 must take Foundations & Pre-Calculus 10 Advanced and Foundations 20 in their Grade 10 year, and Pre-Calculus 20 Advanced and Pre-Calculus 30 Advanced in their Grade 11 year.



Graduation requirements for mathematics will be any 20-level course, however many post secondary programs often demand higher level mathematics courses or calculus.

Workplace & Apprenticeship Pathway

- Content in this pathway was chosen to meet the needs of students intending to pursue careers based on post-secondary education at Sask Polytech, or non-math oriented faculties at university.
- Students who require basic “real-life” mathematics would be well suited for this pathway. Careers as an elementary school or high school PAA teacher, social work, care assistant, graphic communications, hotel & restaurant administration, law enforcement, office work, paramedics, pharmacy technician or many of the trades. .
- 30% - 40% of all Grade 12 graduates are entering fields for which the mathematics in this pathway is appropriate.

Foundations of Mathematics Pathway

- Content in this pathway was chosen to meet the needs of students intending to pursue careers in areas that typically require university, but are not math intensive (e.g., the humanities, fine arts, social sciences and nursing)
- 40% - 60% of all Grade 12 graduates are entering fields for which the mathematics in this pathway is appropriate.

Pre-Calculus Pathway

- Content in this pathway was chosen to meet the needs of students interested in pursuing careers in science-related or math-related areas.
- 10% - 20% of all Grade 12 graduates are entering fields for which the mathematics in this pathway is appropriate.

MATHEMATICS 9 / MATHÉMATIQUES 9 / MATH 9 Modified Outcomes

Grade 9 Mathematics extends material covered in elementary school, introduces new concepts and provides a foundation for future high school math courses. The units of study in math include integers, rational numbers, polynomials, circles and prisms, linear relations/equations/inequality, and statistics and probability.

The Math 9 Modified Outcomes Course follows the same units of study as the Grade 9 course with modifications to foster student success.

Math 9 Course Recovery **online** option (Semester One) (Administrator Permission Required)

FOUNDATIONS & PRE-CALCULUS MATHEMATICS / MATHÉMATIQUES 10

****Prerequisite**** – *Mathematics/Mathématiques 9*

This course is the pre-requisite for both the Foundations Math and the Pre-Calculus at the Grade 11 level. It introduces and focuses on the following concepts: factoring, rational and irrational numbers, laws of exponents, operations with polynomials, trigonometry, relations and functions, slope, linear relations, graphing, linear systems the metric system and imperial measurements.

Foundations & Pre-Calculus 10

FOUNDATIONS & PRE-CALCULUS 10 Advanced

****Prerequisite**** – *Mathematics 9*

This course is the first step on the advanced mathematics path and should be selected by students who are planning to pursue AP Calculus in their Grade 12 year. All of the Pre-Calculus units of study are covered; however topics are studied in greater depth. Students who select this course are those who were highly successful in their Grade 9 Mathematics courses.

WORKPLACE AND APPRENTICESHIP 10

****Prerequisite**** – *Mathematics 9*

This course is the pre-requisite for Workplace and Apprenticeship 20. It focuses on both the metric and imperial systems of measurement. Concepts include area of 2-D shapes and 3-D objects, games involving spatial reasoning, the Pythagorean Theorem, polygons, and an introduction to trigonometry ratios (sine, cosine and tangent), angles, pricing and currency exchange, and income. The seven units covered are:

Unit Pricing and Currency Exchange

Earning an Income

Length, Area and Volume

Mass, Temperature and Volume

Angles and Parallel Lines

Similarity of Figures

Trigonometry of Right Triangles

Workplace & Apprenticeship Mathematics 10

MATHEMATICS 11

Mathematics 11 is a modified course with a major emphasis on consumer math. This course focuses on the skills and knowledge necessary for and applicable to everyday situations.

The Units Covered Include:

Geometry

Algebra Skills

Consumer Math

Linear Equations

Linear Functions and Variations

FOUNDATIONS OF MATH 20 / MATHÉMATIQUES 20 FONDEMENTS

****Prerequisite**** – *Foundations & Pre-Calculus 10 / Mathématiques 10*

This course is a pre-requisite for Foundations of Math 30. It introduces and/or focuses on the following concepts: inductive/deductive reasoning, proportional reasoning, angles and triangles, sine and cosine laws, data analysis, linear inequalities and basic quadratic functions. As well, students research and present an historical mathematical event or area of interest.

PRE-CALCULUS 20 / MATHÉMATIQUES 20 PRÉ-CALCUL

Prerequisite – *Foundations & Pre-Calculus 10 / Mathématiques 10*

This course is a pre-requisite for Pre-calculus Math 30. It introduces and/or focuses on the following concepts: absolute value, radical numbers, rational expressions and equations, the primary trig ratios, sine and cosine laws, factoring of polynomial expressions, quadratic functions, quadratic equations, inequalities, arithmetic and geometric sequences and series, and reciprocal functions. Students in this course should be planning to take Calculus in Grade 12.

Pre-Calculus 20

PRE-CALCULUS 20 Advanced

Prerequisite – *Foundations & Pre-Calculus 10 Advanced Recommended*

This course makes up the second step on the Advanced Mathematics path that leads to AP Calculus at Grade 12. All units of study from Pre-Calculus 20 are covered; however, topics are studied in greater depth.

WORKPLACE & APPRENTICESHIP 20

Prerequisite – *Workplace & Apprenticeship 10*

This course is a pre-requisite for Workplace & Apprenticeship 30. It asks students to deepen their understanding of topics introduced in Grade 10, including surface area, volume, capacity, formulas, right triangles, 3D objects, and mathematical games involving numerical reasoning.

As well, it introduces the following topics:

Data Analysis Using a Variety of Graphs

Personal Budgeting

Compound Interest and Financial Institution Services

Slope, Including Using Technology

Unit analysis and scale

MATHEMATICS 21

Prerequisite – *Mathematics 10/11*

Mathematics 21 is a modified course that will further develop skills needed in everyday life. This course covers topics such as area, volume, ratio, and rates. Also included are areas such as basic banking, loans, income tax, ration/proportion, and graphing.

Number Operations

Equations and Per cents

Consumer Math

Probability

Geometry

Circles

FOUNDATIONS OF MATH 30 / MATHÉMATIQUES 30 FONDEMENTS

Prerequisite – *Foundations 20/ Mathématiques 20 Fondements*

This course continues the learning begun in Foundations 20 and includes the following topics: inductive and deductive reasoning; financial decision making; set theory and its applications; odds/probability; permutations and combinations; and lastly, logarithmic, exponential, sinusoidal and basic polynomial functions. As well, students have the opportunity to research and present a current event or area of interest using data collection and analysis. This course is intended for students considering post-secondary education routes that do not require Calculus.

PRE-CALCULUS 30/ MATHÉMATIQUES 30 PRÉ-CALCUL

Prerequisite – *Pre-Calculus 20 / Mathématiques 20 Pré-Calcul*

This course focuses on the following concepts: angles; rational and radical functions; operations on and transformations of functions; trigonometric ratios, equations, functions and identities; the unit circle; logarithms; advanced polynomial functions; relations and their inverses; and finally, combinatorics (permutations, combinations and the binomial theorem). As the pre-requisite for Calculus, this course is intended for students heading to university to study engineering, and other academic programs requiring Calculus.

PRE-CALCULUS 30 Advanced

Prerequisite - *Pre-Calculus 20 Advanced Recommended*

This is the final step in preparation for AP Calculus at Grade 12. All Pre-Calculus units of study are covered however topics are studied in greater depth and with a focus on the advanced problem solving skills required for AP Calculus.

WORKPLACE AND APPRENTICESHIP 30

Prerequisite – *Workplace & Apprenticeship 20*

This course continues the focus of its two pre-requisites on very “real world” math, including mathematics required for, but not limited to the trades. Real world applications include how to buy a vehicle, and how to set up a small business. Math concepts include transformations of 2-D shapes and 3-D objects; puzzles and games involving spatial reasoning; sine and cosine laws; limitations of measuring instruments; triangles, quadrilaterals and regular polygons; linear relations; data analysis; percentiles and probability. This course is intended for students who want to pursue non-math oriented post-secondary programs at Saskatchewan Polytechnic or at the University of Regina.

CALCULUS 30

Prerequisite – *Pre-Calculus 30*

This course is designed as an introduction to Calculus and deals with limits; slope of the tangent line; derivatives, and their application to motion, related rates, and maximum and minimum problems; and area and integration, if time permits. Calculus 30 is intended for the student who is academically strong in the field of mathematics. The six units of study covered include:

Introduction to Calculus

Slopes and Rates of Change

Derivatives and Their Properties

Application of Derivatives (Motion)

Applications of Derivatives (Area and Volume)

Area and Integration

CALCULUS 30 Advanced Placement/INTEGRAL CALCULUS 30 (2 credits, 2 semesters)

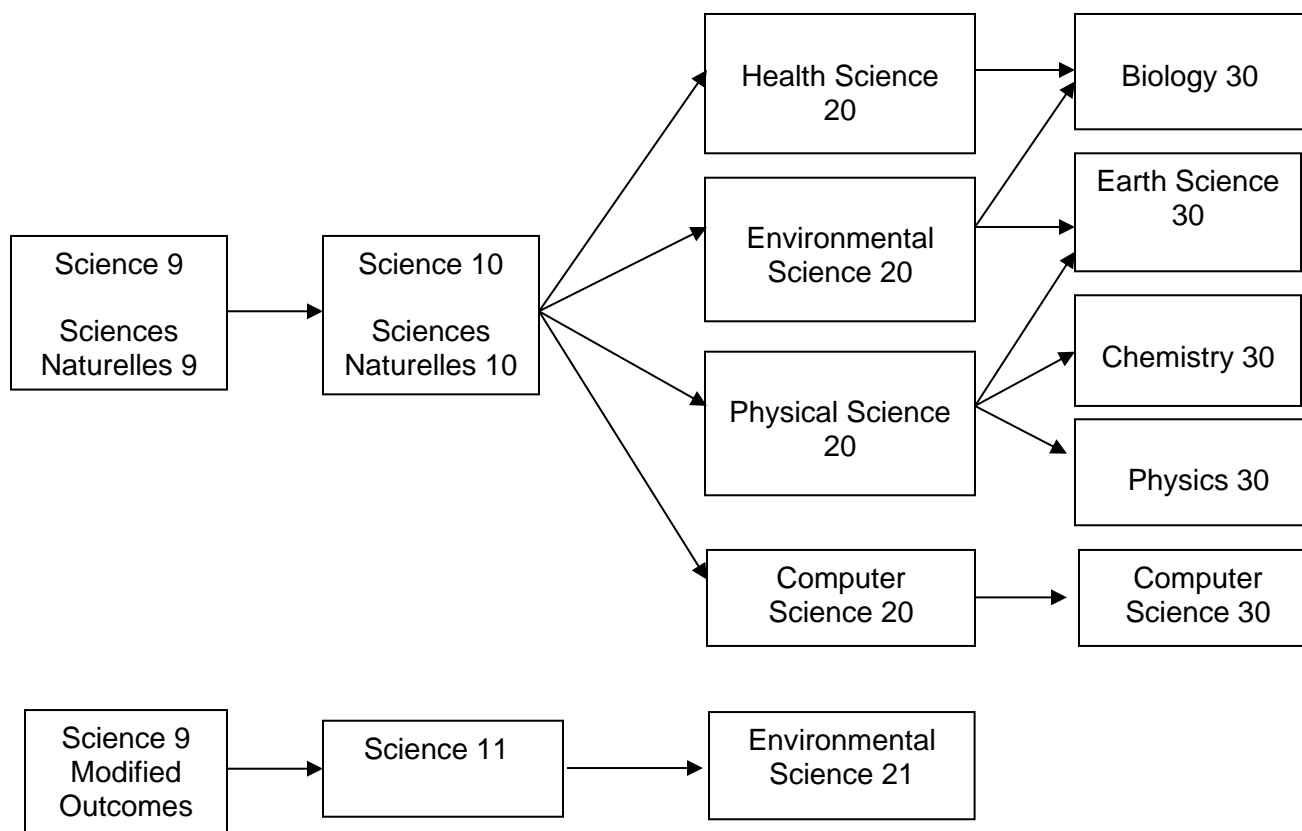
Prerequisite - *Pre-Calculus 30 Advanced Recommended*

Advanced Placement Calculus is a challenging university-level course. It will be offered to students who take a combination of Advanced Placement (AP) Calculus 30 and Integral Calculus 30. Advanced Placement students have the opportunity to write the 3.5 hour internationally recognized AP Calculus exam in early May. Students who achieve a sufficiently high standing on this external exam can earn credit at most North American universities. Students must register in the combined course noted above in their Grade 12 year. AP Calculus will provide students with the course content of both courses listed below over the two semesters.

AP Calculus 30 is designed to provide students with the mathematical understanding and critical-thinking skills identified for entry into post-secondary programs that require the study of theoretical calculus. Topics include: algebraic, transcendental, and piecewise functions, rational expressions, inequalities including absolute value, limits, differentiation, and integration.

Integral Calculus 30 is designed to challenge motivated and mathematically able students and to prepare them for the rigors of post-secondary mathematics. Students will explore more advanced calculus topics than are studied in Calculus 30 and will thereby consolidate and strengthen their algebraic and calculus understandings and skills. Topics include: approximation methods; advanced derivatives; integration properties; techniques and applications; basic theorems of calculus; differential equations; and relative growth rates.

SCIENCE



SCIENCE 9 / 9 Modified Outcomes / SCIENCES NATURELLES 9

This course serves as an introduction to Science 10 and, after that, to specialized high school sciences. The units of study for science nine include Atoms and Elements, Characteristics of Electricity, Cellular and Human Reproduction, and Exploring our Universe. The inquiry-oriented nature of this class enables students to explore ideas on these four topics while deepening their understanding of the nature and processes of science.

The **Science 9 Modified Outcomes Course** follows the same units as the Science 9 course with modifications to foster student success.

SCIENCE 10 / 11 / SCIENCES NATURELLES 10

Prerequisite – Science 9 / Sciences Naturelles 9

The Grade 10 program provides students with the introductory knowledge and skills needed for Biology, Chemistry and Physics. Topics include ecology, chemical compounds, balancing formula equations, speed, acceleration and weather dynamics. There is some laboratory work which will aid in the development and understanding of the theory presented. The three units covered are:

Life Science:	Climate and Ecosystem Dynamics
Physical Science:	Force and Motion in Our World
Physical Science:	Chemical Reactions

The modified **Science 11 course** follows the same units as the Science 10 course with modifications to foster student success.

COMPUTER SCIENCE 20

Prerequisite – Science 10/ Sciences Naturelles 10/Grade 10 Math recommended
Math 10 Recommended

Computer Science 20 is an introduction to problem-solving using the Python programming language. Students will investigate the use of data types, control structures, functions, common coding techniques and one-dimensional arrays to solve a range of problems. Additionally, students will explore the technologies that underlie the Internet, the evolution of computing machinery and computer security practices and privacy implications.

ENVIRONMENTAL SCIENCE 20

Prerequisite – Science 10/ Sciences Naturelles 10

Students will learn how to examine local and global environmental issues such as climate change, water, soil, and air quality, urbanization, bio resource management, waste handling and disposal, land-use planning, and the impacts of agriculture and industry on the environment from scientific and Indigenous knowledge perspectives. Students will examine the role of environmental policies and ethics on decision making and will investigate environmental science related careers. Student directed studies will lead to the development of environmental action plans.

ENVIRONMENTAL SCIENCE 21

Prerequisite – Science 11

Environmental Science 21 explores the scientific study of the environment and focuses on the health and sustainability of terrestrial and aquatic ecosystems. In this course, students focus on the concepts of climate change, water, soil and air quality, urbanization, resource management and the impacts of agriculture and industry on the environment. The modified course follows the same themes/units as Environmental Science 20 with adaptations to the content of the curriculum.

HEALTH SCIENCES 20

Prerequisite – Science 10/ Sciences Naturelles 10

This course will challenge students to look at the health science field from holistic and analytic perspectives to provide a basis for making sound personal health choices. Students will examine the range of philosophies that guide health care and consider ethical decision within those contexts. Understanding the basic anatomy and physiology of the human body will provide a context for studying the normal and abnormal functioning of various body systems, including the role of nutrition and metabolism. Lastly, students will examine diagnostic tools and procedures and how they are used to inform treatment. Students will also investigate the range of health science careers and post-secondary programs available in Saskatchewan.

PHYSICAL SCIENCE 20

Prerequisite – Science 10 / Sciences Naturelles 10

This course combines chemistry and physics in an integrated manner to investigate concepts related to heating and cooling, the foundations of chemistry, including the mole and quantitative analysis of molecules and chemical reactions, and the characteristics and properties of waves. An overarching theme is the study of the enterprise of public and private science as it occurs in agriculture, industry, and universities to help students better understand various physical science related career paths. Student inquiry will guide independent investigations of physical science phenomena.

BIOLOGY 30

Prerequisite – Health Science 20 or Environmental Science 20

The major themes of this course are to examine the significance of evolution as a key unifying theme in biology and to explore what life is and how it changes over time. Students will examine the organization of life in all kingdoms through the study of biomolecules, cellular processes, and organism function. In genetics and biotechnology, students will explore inheritance, and how information is stored, transmitted, and expressed at chromosomal and molecular levels. Student inquiry will guide independent investigations of biology-related phenomena.

CHEMISTRY 30

Prerequisite – *Physical Science 20*

A major focus of the course is the study of the role of chemical properties and bonds in determining what makes materials suitable for use in specific applications. Students will actively investigate the nature of equilibrium in chemical reactions. In electrochemistry, students explore oxidation-reduction reactions and the impact of electrochemistry on society and the environment. Other topics include organic compounds and acid-base chemistry. Student inquiry will guide independent investigations of chemistry-related phenomena.

COMPUTER SCIENCE 30

Prerequisite – *Computer Science 20*

By using Java, Computer Science 30 builds on programming and computational thinking concepts introduced in Computer Science 20. Students will investigate data structures, sorting algorithms, effective coding practices and collaborative programming practices. Students will create programs that utilize external files and libraries. A major focus of this course is the capstone coding project, in which students demonstrate proficiency in object-oriented programming.

AP COMPUTER SCIENCE A

Prerequisite – *Computer Science 20*

Computer Science A emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development and is meant to be the equivalent of a first-semester college-level course in Computer Science. It also includes the study of data structures, design, and abstraction. The goal of the course is to impart valuable problem-solving skills; for the most part, this is supported by constructs within the programming language itself. Student use these skills to write real solutions to problems.

The additional material needed to prepare for the Advanced Placement Computer Science A exam written in May is provided through Regina Catholic Learning online learning. All students wishing to write the AP Computer Science Exam must register in and complete the AP Computer Science Prep Course. See your AP Coordinator for details.

EARTH SCIENCE 30

Prerequisite – *Physical Science 20 or Environmental Science 20*

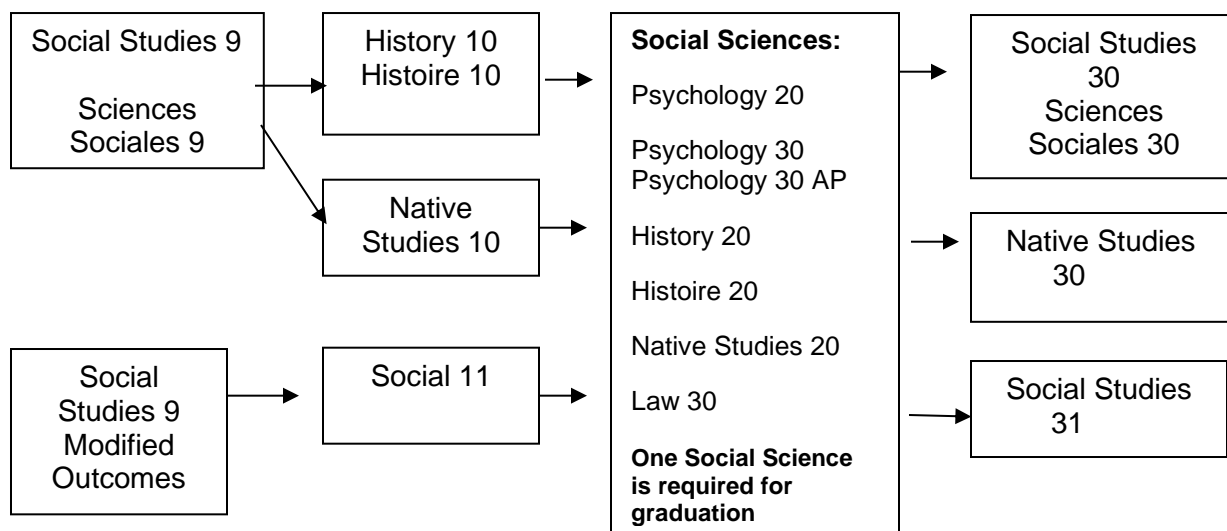
Students will examine our planet's geological origins and the geological timescale as a foundation to guide decision making with regard to the use of its mineral and energy resources, the maintenance and remediation of the environment, and response to geological hazards. Hands-on field experiences will enable students to develop visual-spatial reasoning skills and an understanding of the role of Geographic Information Systems. Students will also explore the historical and contemporary significance of Earth Science and related careers.

PHYSICS 30

Prerequisite – *Physical Science 20*

This course enables students to investigate concepts related to modern physics such as quantum mechanics, relativity, and nuclear physics. Students will use Newtonian mechanics to analyze various types of motion and the forces that cause motion. Using the conservation laws of momentum and energy, students will analyze and predict the results of interactions between objects. Lastly, students will explore gravitational, electric, and magnetic fields and their interactions. Student inquiry will guide independent investigations of physics-related phenomena.

NATIVE STUDIES / SOCIAL STUDIES



SOCIAL STUDIES 9 / 9 Modified Outcomes/ SCIENCES SOCIALES (SCIENCE HUMANIE) 9

Social 9 is a comprehensive introduction to social science concepts. The course focuses on understanding and measuring time, human evolution, and early civilizations.

The Social Studies 9 Modified Course follows the same units as the Social Studies 9 course with modifications to foster student success.

HISTORY 10 / HISTOIRE 10

Prerequisite – Social Studies 9/ Sciences Sociales 9

This course is designed to provide students with a basic understanding of industrialized, democratic societies. Historical content is used to show students how many of the social organizations, which developed during the late 18th and 19th centuries, have shaped modern decision-making processes. Major topics of study include the French Revolution, the Industrial Revolution, the Rise of Nationalism, Imperialism and World War I. A key focus of this course is the development of those skills necessary for students to become critical and creative thinkers and independent learners. The units of study are:

- Unit 1: Political Decision Making
- Unit 2: Economic Decision Making
- Unit 3: The Development of Nation States
- Unit 4: Imperialism
- Unit 5: International Relations

NATIVE STUDIES 10

Prerequisite – Social Studies 9/Sciences Sociales 9

Native Studies 10 examines the culture of the First Nation People with an emphasis placed on the people of Central Canada. This course explores the traditional First Nations perspective, introduces students to contemporary terminology and provides students with a general history of aboriginal people. The four units covered include:

- Unit One: Spirituality and Worldview
- Unit Two: Kinship and Family
- Unit Three: Economic Development
- Unit Four: Social Development

SOCIAL STUDIES 11

Prerequisite – *Social Studies 9*

The goal of this course is to help students understand the basic organizations of industrialized and democratic societies. Students are introduced to the way democracies organize themselves to make and carry out decisions for society. They are also introduced to the problem of scarcity and economic decision making. Students will examine the ideologies of conservatism, liberalism and socialism, and their role in the political process. Students will examine the concept of international trade and how it affects the economic well-being of Canadians. In the final unit students will study the concepts of balance of power and collective security. The units covered are:

- Unit One: Political Organizations
- Unit Two: Economic Organizations
- Unit Three: Ideologies
- Unit Four: International Economic Relations
- Unit Five: International Political Relations

HISTORY 20 / HISTOIRE 20

Prerequisite – *History 10/Histoire 10 or Native Studies 10 or Social Studies 11*

Students will study major world issues that have shaped the 20th century and continue to influence the 21st century. There are four major themes in this course: international cooperation and confrontation, global interaction during the interwar years and World War II, the rise and interaction of the super powers, and contemporary global interactions. There is a focus on the development of research and dialectical thinking skills in this course. The units of study are:

- Unit 1: Historical Background
- Unit 2: Death of the Old Order
- Unit 3: The Emergence of Totalitarianism
- Unit 4: National Sovereignty and Collective Security
- Unit 5: Self-Determination and the End of the Cold War

NATIVE STUDIES 20

Prerequisite – *Native Studies 10 or History/Histoire 10 or Social Studies 11*

This course focuses on self-government and self-determination, the effects of development, social justice and social justice issues and how they all relate to Canadian Aboriginal people. This course helps students realize that issues facing Canadian Aboriginal peoples are similar to issues that face all Canadians. The three units of study covered include:

- Unit One: Self Determination and Self Government
- Unit Two: Development
- Unit Three: Social Justice

NATIVE STUDIES 30: CANADIAN STUDIES

Prerequisite – *Native Studies 10 or History/Histoire 10 or Social Studies 11*

Native Studies 30 examines contemporary issues relevant to Canadian Aboriginal people. This course provides students with political, legal, and Aboriginal perspectives on issues such as Aboriginal Rights, Land Claims, Treaty and Treaty Rights. The five units covered include:

- Unit One: Aboriginal and Treaty Rights
- Unit Two: Governance
- Unit Three: Land Claims
- Unit Four: Economic Development
- Unit Five: Social Development

SOCIAL STUDIES 30/31: CANADIAN STUDIES /SCIENCES SOCIALES 30

****Prerequisite**** – *History / Histoire 10, Native Studies 10 or Social Studies 11*

This course deals with contemporary issues facing Canadians. The emphasis in this course is to develop students' abilities to think and reason dialectically in their consideration of issues, and their approach to solving problems. Individual units concentrate on the themes of Change, Economic Development, Acculturation, Governance, and Globalization. In each unit the historical experience of Canadians is viewed from a modern perspective in an attempt to understand who we are, and why we react the way we do to the current issues and problems which confront us as citizens of Canada and the world. The five units covered include:

Unit One: Change

Unit Two: Culture

Unit Three: Governance

Unit Four: Economic Development

Unit Five: Globalization

The modified Social Studies 31 course follows the same units presented in the Social Studies 30 course with modifications to foster student success.

SOCIAL SCIENCES

LAW 30

Prerequisite – None

Law 30 is designed to prepare students to become active, informed and productive citizens who know and understand their legal rights and responsibilities. Students will learn about the rule of law and learn that the law reflects, and is shaped by, society's values and attitudes regarding social and human relationships. Students will study the abstract nature of law as well as its applications to current Canadian and global legal issues. The six units covered include:

- Unit One: The Need for Law
- Unit Two: Canada's Legal System
- Unit Three: Legal Rights
- Unit Four: Criminal Law
- Unit Five: Family Law
- Unit Six: Other Relevant Issues

PSYCHOLOGY 20

Prerequisite – None

Psychology 20 studies human behaviour in a variety of social situations. Students will learn about themselves as individuals and as people who are part of a larger social context such as families, friends and citizens of a country in a global community. The four units covered include:

- Unit One: What is Social Psychology?
- Unit Two: Who am I?
- Unit Three: How do I make Sense of my World?
- Unit Four: How do I Act and Interact in a Social World?

PSYCHOLOGY 30

Prerequisite – None

Psychology 30 is the study of human development across the time spans of human life. Students will learn about how humans grow in areas of physical, intellectual, emotional, social and spiritual development as they move from conception to death. The five units covered include:

- Unit One: What is Developmental Psychology?
- Unit Two: Prenatal and Infant Development
- Unit Three: Early and Middle Childhood Development
- Unit Four: Adolescent Development
- Unit Five: Early and Late Adult Development

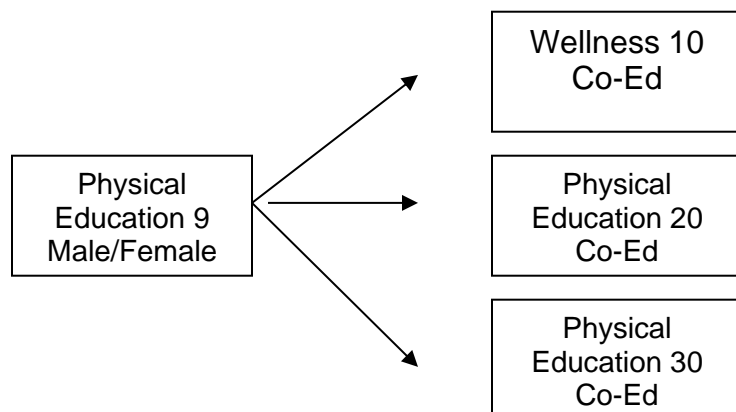
PSYCHOLOGY 30 ADVANCED PLACEMENT

Prerequisite – *Students wishing to take Psychology 30AP need to enrol in Psychology 20 in semester one.*

Psychology 30 AP introduces students to the systematic and scientific study of the behaviour and mental processes of human beings and other animals. Students will learn psychological theories, methods and principles associated with the major sub fields of psychology. This is an advanced course that requires a fair degree of independent study by the student. This course allows students to complete studies in high school, which they may later use as an equivalent to an introductory university course in psychology depending on the mark achieved by the student on the AP exam and on the entrance requirements of specific universities. The nine units covered are:

- Unit One: Methods, Approaches and History
- Unit Two: Biological Bases of Behaviour
- Unit Three: Consciousness, Sensation, and Perception
- Unit Four: Lifespan Development
- Unit Five: Learning, Memory and Cognition
- Unit Six: Motivation and Emotion
- Unit Seven: Personality
- Unit Eight: Abnormal Psychology and Treatment
- Unit Nine: Social Psychology

PHYSICAL EDUCATION



PHYSICAL EDUCATION 9

The Grade 9 physical education program introduces students to movement activities to support lifelong active living in the context of self, family, and community (Active Living). Physical education will enhance the student's quality of movement by understanding, developing, and transferring movement concepts, skills, tactics, and strategies to a wide variety of movement activities (Skillful Movement). Students will also learn to balance self through safe and respectful personal, social, cultural, and environmental interactions in a wide variety of movement activities (Relationships). Units of study may include, but are not limited to Body Composition, Skill Related Fitness and Games, Tactics and Strategies.

WELLNESS 10

Prerequisite – None

Wellness 10 is a program that integrates physical education and a healthy lifestyle. The goals for Wellness 10 are to develop the understanding, skills and confidences necessary to take action to improve health, make informed decisions based on health-related knowledge, enjoy and engage in healthy levels of participation in movement activities to support lifelong active living in the context of self, family and community. Wellness will enhance quality of movement by understanding, developing and transferring movement concepts, skills, tactics and strategies to a wide variety of movement activities and balance self through safe and respectful personal, social, cultural and environmental interactions in a wide variety of movement activities.

PHYSICAL EDUCATION 20

Prerequisite – None

Active for Life: This course recognizes that physical activity and sport play a critical role in promoting the wellness of all individuals and nurtures the health of our communities. This course will promote student participation in a class environment, separate from students at the highly competitive end of the spectrum. Course content and delivery are structured to engage students who are interested in active living, leadership, and non-traditional forms of physical activity. Areas of study include, but are not limited to: Service learning, fitness, body management, complex skills, physical activity in multiple environments, games, tactics, and strategies, nutrition, skeletal and muscular systems, and personal mental health. Students will have opportunities to examine First Nations and Metis worldviews regarding learning through physical activities. Students will also develop leadership skills through connections and experiences with associate schools and community groups. Students will complete the course having developed a positive attitude towards physical activity and the desire and appreciation to be *Active for Life*.

Sport Performance: This course presents a unique opportunity for student athletes who are ready to compete and excel at the highest level possible. Student athletes will have the opportunity to train and improve their fitness, which will directly affect their chosen sport. This occurs during the school day as part of a partnership with Level 10 Fitness. Students will work to develop a strength and conditioning program targeted to improve their specific skills and performance. These student athletes need to commit to high volume, high intensity, and competitive training throughout the semester. Areas of study include but are not limited to: Service learning, fitness, body management, complex skills, physical activity in multiple environments, games, tactics, and strategies, nutrition, skeletal and muscular systems, and personal mental health. Students will have opportunities to examine First Nations and Metis worldviews regarding learning through physical activities.

PHYSICAL EDUCATION 30

Prerequisite - None

Active for Life: This course recognizes that physical activity and sport play a critical role in promoting the wellness of all individuals and nurtures the health of our communities. This course will promote student participation in a class environment, separate from students at the highly competitive end of the spectrum. Course content and delivery are structured to engage students who are interested in active living, leadership, and non-traditional forms of physical activity. Areas of study include, but are not limited to - leadership through service learning, lifelong fitness, body management, movement in multiple environments, complex skills, tactics and strategies, nutrition, physiology and biomechanics, and exercise psychology. Students will have opportunities to examine First Nations and Metis worldviews regarding learning through physical activities. Students will also develop leadership skills through connections and experiences with associate schools and community groups. Students will complete the course having developed a positive attitude towards physical activity and the desire and appreciation to be *Active for Life*.

Sport Performance: This course presents a unique opportunity for student athletes who are ready to compete and excel at the highest level possible. Student athletes will have the opportunity to train and improve their fitness, which will directly affect their chosen sport. This occurs during the school day as part of a partnership with Level 10 Fitness. Students will work to develop a strength and conditioning program targeted to improve their specific skills and performance. These student athletes need to commit to high volume, high intensity, and competitive training throughout the semester. Areas of study include but are not limited to leadership through service learning, lifelong fitness, body management, movement in multiple environments, complex skills, tactics and strategies, nutrition, physiology and biomechanics, and exercise psychology. Students will have opportunities to examine First Nations and Metis worldviews regarding learning through physical activities.

SPORTS MEDICINE 20

Prerequisite – None - but this course is recommended for Grade 11 or 12 students

This is a locally developed elective designed to introduce students to sports medicine related careers, the fundamentals of body systems with a focus on the musculoskeletal system, nutrition and training, and the basics of sports medicine. Students will gain basic knowledge of the prevention, recognition, treatment, and rehabilitation of common sport related injuries. They will learn supportive wrapping and taping techniques and proper injury treatment protocol.

Unit One: What is Sports Medicine?

Unit Two: Anatomy and Body Systems

Unit Three: The Prevention and Care of Sport Specific Injuries

Unit Four: First Aid and Emergency Care

Unit Five: Sports Nutrition, Sports Psychology, Performance Enhancers used in Sports

FINE ARTS

ARTS EDUCATION 9

This course has three separate components: Drama, Music and Visual Arts. Students will spend approximately six weeks in each of the classes to gain an appreciation for all aspects of arts education. The student's grade will be determined by averaging the marks of all three strands.

Drama

The creative/ productive, cultural/historical and critical/responsive components are interwoven into the drama course to ensure that students become aware of the connections between their world, and the drama of others. Students will be encouraged to discuss and respond to these connections, and to make individual and collective contributions at each stage of work given. The three units covered include:

- Unit One: Stage Basics: Movement and Speech
- Unit Two: Drama in Context: Improvisation and Characterization
- Unit Three: Drama and Dramatic Artists: Storytelling

Music

The goal of this course is to give students an opportunity to learn about, understand, and experience music in a classroom setting. Students are encouraged to develop their own unique abilities and make connections through guided exploration and structured activities. Student evaluation is based upon their understanding, effort, and personal growth. The four units covered include:

- Unit One: Introduction to Music and Music History
- Unit Two: The Language of Music
- Unit Three: Rhythm and Composition
- Unit Four: Guitar Techniques

Visual Arts

In visual Arts, students will develop an understanding of ways that ideas can be transformed into visual form. They will determine and explore appropriate media and forms of visual expressions; extend their visual art vocabulary; recognize the influence of environmental, historical and social factors on visual art. As well, they will increase their awareness of contemporary issues surrounding visual art; extend their knowledge of the relationships between various cultures and visual art; and evaluate the influence of visual art in their daily lives, the mass media and popular culture. An emphasis is placed on their projects. The three units that are covered include:

- Unit One: Art Appreciation
- Unit Two: Elements of Art
- Unit Three: Principles of Design

VISUAL ART 10 / 20 / 30

****Prerequisite* – None***

In these courses students experience visual art as an artist and audience. As artists, they will learn skills and techniques by utilizing a variety of media (mixed media, coloured pencils, acrylic paint, chalk pastels, oil pastels, collage, and pencil/graphite) to explore their own ideas, experiences, feelings, cultural identities, observations, and imaginations. As an audience, they are introduced to several artists, their work and their place in the world.

Visual Art 10 units of study include:

- Unit One: Visual Art and Ways of Thinking
- Unit Two: International Visual Art
- Unit Three: Local and Regional Culture
- Unit Four: Functional Objects
- Unit Five: Interpersonal Themes

Visual Art 20 units of study include:

- Unit One: Ideas and Inspiration
- Unit Two: Popular Culture and Mass Media
- Unit Three: Cultural Communities of Canada
- Unit Four: Spiritual Images and Visual Art
- Unit Five: Differing Perspectives

Visual Art 30 units of study include:

- Unit One: Change
- Unit Two: Visual Art in Canada
- Unit Three: Global Cultural Explorations
- Unit Four: Social Issues and Visual Art
- Unit Five: Personal Identity/ Independent Study

BAND 9

****Prerequisite**** (Three years of band preferred) *Early Bird Class*

The preparation and performance of a variety of different styles of music will allow each student to learn musical concepts, improve their musical literacy, and develop and advance technical skills on his/her instrument. Students will learn to understand and appreciate a variety of musical genres, demonstrate a commitment to their own musical education and growth, develop and maintain a positive, group-oriented attitude and experience success through group, ensemble and/or solo performances. Students will be involved in several performances including public and school-related concerts, clinics, festivals and a student-funded tour in or outside the province. Band 9 is an early bird class.

A fine arts credit is invaluable when applying for secondary education and scholarships as it shows advancement in the areas of creativity, sensitivity, critical thinking and an appreciation for beauty.

BAND 10/ 20/ 30

****Prerequisite**** (Previous Band Experience is Preferred) *Early Bird Class*

The preparation and performance of a variety of different styles of music will allow each student to learn musical concepts, improve their musical literacy, and develop and advance technical skills on his/her instrument. Students will learn to understand and appreciate a variety of musical genres, demonstrate a commitment to their own musical education and growth, develop and maintain a positive, group-oriented attitude and experience success through group, ensemble and/or solo performances. Students will be involved in several performances including public and school-related concerts, clinics, festivals and a student-funded tour in or outside the province.

A fine arts credit is invaluable when applying for secondary education and scholarships as it shows advancement in the areas of creativity, sensitivity, critical thinking and an appreciation for beauty.

INSTRUMENTAL JAZZ 9/ 10/ 20/ 30 ****No Prerequisite* Audition Required***

Instrumental Jazz are auditioned ensembles that rehearse once per week. This course is an extension of the Band Program and therefore students must be registered in Band as well. The class focuses on jazz repertoire, improvisation, and jazz pedagogy. Students are expected to practice the repertoire on their own between rehearsals. Through the use of listening, improvising, and jazz pedagogy, students will gain a better understanding of the jazz language. The libraries of Count Basie, Stan Kenton, Sammy Nestico, and Pat Metheny will be the foundations for the class. Students will gain a wider knowledge base if they listen to the masters that came before them.

CHORAL 9 *Early Bird Class*

The preparation and performance of a variety of different styles of music will allow each choral student to improve their musical literacy and develop an exemplary vocal tone. Students will learn to understand and appreciate a variety of musical genres, demonstrate a commitment to their own musical education and growth, develop and maintain a positive, group-orientated attitude and experience success through group and/or solo performances. Students will be involved in various performances including public and school-related concerts, clinics, festivals and a student-funded tour in or outside the province.

CHORAL 10/ 20/ 30 *Early Bird Class*

****Prerequisite**** – None

The preparation and performance of a variety of different styles of music will allow each choral student to improve their musical literacy and develop an exemplary vocal tone. Students will learn to understand and appreciate a variety of musical genres, demonstrate a commitment to their own musical education and growth, develop and maintain a positive, group-orientated attitude and experience success through group and/or solo performances. Students will be involved in various performances including public and school-related concerts, clinics, festivals and a student-funded tour in or outside the province. A fine art credit is invaluable when applying for post secondary education and scholarships as it shows advancement in the areas of creativity, sensitivity, critical thinking and an appreciation for beauty.

VOCAL JAZZ 9 /10 /20 /30

****Prerequisite**** – None

Vocal Jazz is a credit class at Grades 10, 11 and 12. It is an extension of the existing Choral program and focuses on the elements of jazz repertoire. The four general outcomes are musicianship, listening, improvisation and technology within the vocal jazz context. Students must be taking choir concurrently or have at least two years of choral experience.

Involvement is at the discretion of the director following the audition process. A fine art credit is invaluable when applying for post secondary education and scholarships as it shows advancement in the areas of creativity, sensitivity and critical thinking.

DRAMA 10

Prerequisite – None

Drama 10 concentrates on introductory movement, tableaux, and improvisation, which will facilitate basic acting techniques. Emphasis is placed on character development, blocking, timing, and staging. There are five areas of study

- One: Movement
- Two: Tableaux
- Three: Characterization
- Four: Improvisation
- Five: Scene Work

DRAMA 20

Prerequisite – None

Drama 20 focuses on improvisation, play study, and character development with a greater emphasis on character analysis. Students will study acting skills with a focus on vocalization. Emphasis will also be on theatre study including theatre history and script analysis. The five areas of study include:

- One: Improvisation
- Two: Movement
- Three: Speech
- Four: Characterization
- Five: Theatre Study (Play Analysis)

DRAMA 30

Prerequisite – None

Drama 30 concentrates on the production and historical aspects of drama. Lighting, make-up, stage settings and sound are covered. The students will progress from performing short scenes to creating a drama collective or producing a play. The four areas of study in Drama 30 include:

- One: Improvisation
- Two: Characterization
- Three: Theatre Study-History
- Four: Play Production/Collective

MUSIC 10/20/30

Prerequisite – None

Music 10, 20 and 30 are an extension of the music component of the grade 9 Arts-Ed Program. In these classes, students will focus on expanding their music skills and literacy in three specific areas:

Practical: Students will choose one instrument to play for the semester. This class is primarily self-directed, and students must be mature enough to work independently and practice on their own. Students, in cooperation with the teacher, will set goals and work on a contract basis.

Theoretical: Students will learn the language of music including music notation, terms, elementary harmony and composition. Students will complete this portion of the course on computer and will therefore be directly responsible for their own success.

Analytical: Projects may include research and critical response to music and music related topics.

A fine arts credit is invaluable when applying for secondary education and scholarships as it shows advancement in the areas of creativity, sensitivity, critical thinking and an appreciation for beauty.

Please note however, that students must be mature enough to work independently and practice on their own to be successful in this busy environment.

PRACTICAL AND APPLIED ARTS

The Saskatchewan Youth Apprenticeship Program

Miller students taking Practical and Applied Arts (PAA) courses will have the opportunity to complete the Youth Apprenticeship Program (YAP). The Saskatchewan Youth Apprenticeship Program is comprised of three levels of four challenges each that must be completed during Grade 10, 11 and 12.

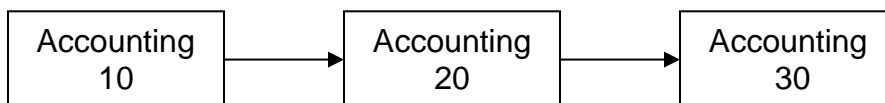
Level One focuses on awareness of the apprenticeship process. Level Two focuses on researching career pathways and Level Three students may have the opportunity to job shadow, visit job sites and attend career fairs. Once each level is complete, students receive a certificate issued by Saskatchewan Apprenticeship and Trade Certification Commission.

The program benefits are as follows:

- Getting a head start on career planning
- Recording achievements for career portfolios
- Youth registering as an apprentice in a designated trade within three years receives:
 1. Waiver of registration fee
 2. Waiver of first level of technical training tuition
 3. 100 hours of trade time credit per PAA course completed
 4. Youth Apprenticeship \$1000 Scholarship Opportunity

We are proud to provide this unique, valuable opportunity and experience for all of our students who choose to take PAA courses.

ACCOUNTING



ACCOUNTING 10

Prerequisite – None

Accounting 10 introduces students to different types of businesses, generally accepted accounting principles and accounting careers. Students will learn the entire accounting cycle for a service business organized as a proprietorship. Students will understand the ethical and moral responsibilities of an employee in the accounting field and will be able to apply basic accounting concepts and financial management skills to personal use situation whether for self, school, outside agencies or business. The five themes covered are:

- Introduction to Accounting and Career Opportunities
- Accounting Cycle for a Service Business
- Banking and Cash Control
- Introduction to Simply Accounting

ACCOUNTING 20

Prerequisite – Accounting 10

Accounting 20 will introduce the students to a merchandising business organized as a partnership. Topics such as inventory, mark-up discounts, returns, receivables and payables are studied. Special journals are introduced. A unit on taxation will teach students how to prepare a basic personal income tax return. Students considering post-secondary education in Administration or Commerce will definitely benefit from taking high-school accounting.

The three themes covered are:

- Accounting Cycle of a Merchandising Business
- Basic Personal Income Tax
- Payroll

ACCOUNTING 30

Prerequisite – *Accounting 20*

Accounting 30 will introduce the concept of managerial accounting in contrast to financial accounting. Management functions such as planning, organizing, directing, budgeting, financial statement analysis and decision-making are studied. A unit on asset analysis will introduce the concepts of bad debts, depreciation and inventory evaluation. The organization and structure of corporations and partnerships are studied. This will include definitions, legal concepts, basic journal entries and financial statement reporting. Students considering post-secondary education in Administration or Commerce will definitely benefit from taking high-school accounting. The four themes covered in this course are:

- Management Accounting and Financial Statement Analysis
- Asset Analysis
- Corporations
- Partnerships

ENTREPRENEURSHIP 30

Prerequisite – *None*

Are you a self-motivated person? Do you have the stamina to work 18-hour days? Do you have a unique product or service you would like to market? Entrepreneurship 30 is a course designed to provide students with the skills and knowledge needed to plan and implement their own venture. Students learn how research, plan, market, and acquire financial assistance required to start a business. Students get the opportunity to learn about entrepreneurs who have or have not been successful in owning and operating a small business. Projects for this class will require work to be completed outside of class time. As a participant in this course, you will be part of a group venture project that will help you to develop life-long skills. Areas of study include:

- Business Terminology
- What is an Entrepreneur?
- Entrepreneurial Attitudes, Characteristics, and Skills
- Developing Creativity
- Enterprise planning and organization
- Marketing
- Financial Planning
- The Entrepreneurial Plan

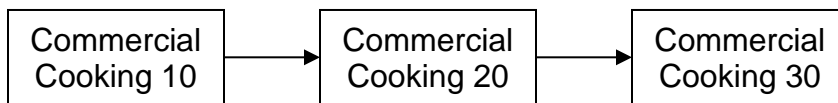
FINANCIAL LITERACY 20

Prerequisite – *None*

With the increasing debt loads of consumers and the rising number of personal bankruptcies, the need for financial management skills has become essential. Financial Literacy 20 provides students with a broad base of knowledge and skills related to personal finance management. Students will develop an awareness and understanding of personal economic decision making that will help them become informed consumers. Through personal and work experiences, students will develop work habits, attitudes and problem-solving skills that will have long lasting benefits. Key areas we will be exploring:

- \$ Decision Making, Goal Setting, Lifestyle, and Careers
- \$ Banking Services and Transactions
- \$ Income and Payment
- \$ Savings, Investing and Interest
- \$ Budgeting
- \$ Credit and Credit Cards
- \$ Renting, Leasing and Buying
- \$ Consumer Protection

COMMERCIAL COOKING



YAP is available in these courses.

Learning culinary and baking arts is an opportunity for creativity and self-expression and an avenue for potential employment within the food service industry. Commercial Cooking 10, 20, 30 provides students with hands-on experiences in the food service industry. Great cookery requires taste, creativity and the development of culinary techniques. Commercial Cooking is an opportunity for students to understand and apply these food and culinary principles and skills. Through this course, students can explore taste, creativity and decision-making in a commercial cooking environment.

COMMERCIAL COOKING 10

Prerequisite – None

This course combines theory and 'hands on' experiences when preparing foods on a larger scale. Learning how to use commercial food equipment and tools is necessary to assure safety on the job. Learning how to handle food safely and prevent food poisoning is equally as important. Students also have the opportunity to obtain a Food Handler's Certificate. Students will prepare soups, arrange salads, assemble sandwiches, and bake muffins, cookies and quick breads. Some careers in foods may include: a chef, dietician, working in test kitchens 'testing' recipes or becoming an entrepreneur.

COMMERCIAL COOKING 20

Prerequisite – Commercial Cooking 10

From the basic knowledge and skills learned at the Commercial Cooking 10 level, a minimum of 70% of the time is spent in the commercial kitchen setting. Students will make white and brown stock; prepare sauces such as Hollandaise for Eggs Benedict, make fruit and custard pies and bake and ice different types of cakes. Creating apple birds, fancy mushroom caps and carrot flowers are not only fun to do but add eye appeal to any meal. Breakfast preparation for large groups is an addition to this course. The students make eggs over easy, crisp bacon, and fluffy pancakes for the staff and student body. After cleaning the grill, deep fryers and freezers, the students can enjoy their free breakfast.

COMMERCIAL COOKING 30

Prerequisite – Commercial Cooking 20

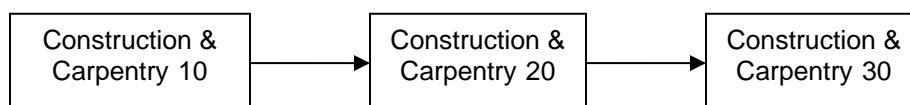
Students can learn to become a gourmet cook and caterer. In this 30 level course, students will cook Chicken Cordon Bleu, Roast Beef with Yorkshire pudding, and fabulous dishes such as Sushi and Fajitas from other countries. Desserts could include Crème Caramel, Chocolate Mousse or a French Silk pie. Students will also learn cake decorating techniques, how to make bread, croissants, cinnamon buns and pastas from scratch. Entertaining with food includes learning how to make a special meal with all the trimmings. After completing this course, students can challenge the apprenticeship exam in food services, which is equivalent to the first year in cooking school. Food careers, other than food services, include a food technologist, food scientist, dietician, a corporate chef, and 'recipe testing' kitchen personnel.

ADVANCED BAKING 30 L

Pre-requisite - Commercial Cooking 20 or 30

Advanced Baking 30 provides students with an opportunity to focus on this specific area of the culinary arts. They will learn about the daily tasks and responsibilities of a Professional Pastry Chef. Students will become familiar with French baking terminology and learn variations on restaurant desserts and artistic decorative skills. This includes classic and contemporary presentations of both sweet and savory petites fours, Bavarian creams and mousses, caramel and nougatine, chocolate work - both hand tempering and dipping, sugar work decorations and advanced cake decorating. Students are required to complete a final project for this class.

CONSTRUCTION AND CARPENTRY



YAP is available in these courses.

CONSTRUCTION & CARPENTRY 10/ 20/ 30

Prerequisite—*Construction 10 is the prerequisite for Construction 20. Construction 20 is the prerequisite for Construction 30.*

Construction and Carpentry classes are designed to create an appreciation of the industry and to develop entry-level skills within the construction trade. There are many hands on opportunities to develop skills for personal use and/or make a smooth transition from school to the workplace. Students learn by experience and by completing wood projects that they can keep.

Construction 10 units covered include:

- Unit One: Introductory Safety
- Unit Two: Wood Theory
- Unit Three: Lay Out and Hand Tools
- Unit Four: Portable Power Tools
- Unit Five: Stationary Power Tools
- Unit Six: Fasteners and Adhesives
- Unit Seven: Construction and Careers
- Unit Eight: Introduction to Cabinet Making

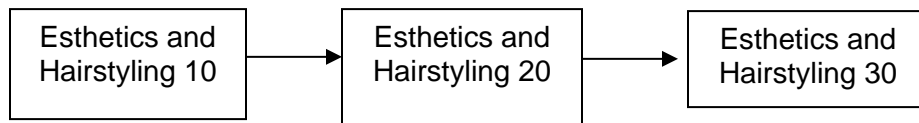
Construction 20 units studied include:

- Unit One: Workshop and Construction Site Safety
- Unit Two: Advanced Portable Power Tools
- Unit Three: Advanced Stationary Power Tools
- Unit Four: Structured Framing and Sheathing
- Unit Five: Roof Framing
- Unit Six: Cabinet Making
- Unit Seven: Building Layout

Construction 30 units covered include:

- Unit One: Review of Safety
- Unit Two: Intermediate Wood Theory
- Unit Three: Advanced Wood Theory
- Unit Four: Advanced Cabinet Making
- Unit Five: Concrete

ESTHETICS AND HAIRSTYLING



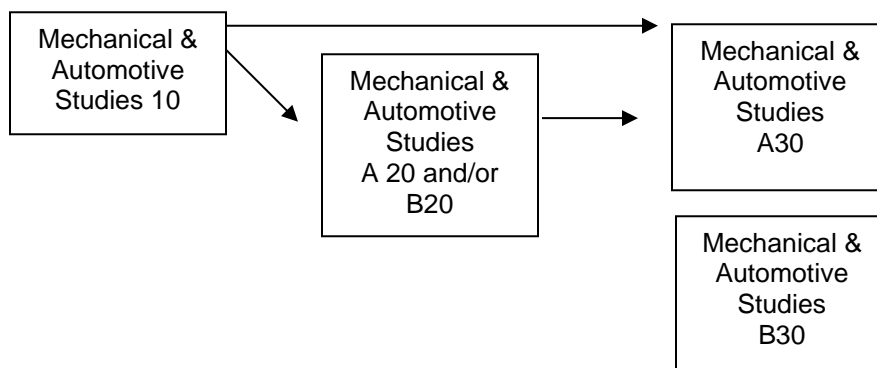
YAP is available in these courses.

Esthetics and Hairstyling 10/ 20/ 30

Prerequisite – *Esthetics and Hairstyling 10 is the prerequisite for Esthetics and Hairstyling 20. Esthetics and Hairstyling 20 is the prerequisite for Esthetics and Hairstyling 30.*

Do you enjoy expressing your creativity and the freedom of a hands-on class? Then this is an exciting elective for you. This course introduces students to concepts and skills related to esthetics and hairstyling; including hair, nail and skin applications. Students will develop an awareness and appreciation of the industry as well as developing lifelong practical skills. There are many opportunities available to students who have a desire to further their interests in the industry. The field of Esthetics and Hairstyling encompasses many occupations including hairdressers, estheticians, make-up artists, theatrical make-up artists, aroma- therapists, massage therapists, nail technician, fashion designer, herbalist, image consultant, fashion editor, fashion trend forecaster, fashion buyer, dermatologist, perfumer, plastic surgeon, Feng-Shui consultant or a homeopathic practitioner.

MECHANICAL AND AUTOMOTIVE STUDIES



YAP is available in these courses.

MECHANICAL AND AUTOMOTIVE STUDIES 10

****Prerequisite****–None

In Mechanics 10, students will develop a general knowledge of the operations and functions of tools, equipment, cooling and exhaust systems. They will learn the regular maintenance tasks required in keeping an automobile running smoothly. Students will also develop a full understanding of the safety procedures and practice safe work habits while working in the shop.

The seven units covered include:

- Unit One: Introduction to the automobile and careers
- Unit Two: Health and Safety
- Unit Three: Tools and Equipment
- Unit Four: Small Engines
- Unit Five: Buying New and Used Cars
- Unit Six: Service and Maintenance

MECHANICAL AND AUTOMOTIVE STUDIES A20

****Prerequisite****–Mechanical and Automotive Studies 10

In Mechanics A20, students will develop specific knowledge of the operations and functions of brake systems, drivelines and electrical systems. They will also be given a full understanding of the internal combustion engine (multi-cylinder). The five units covered include:

- Unit One: Safety Review
- Unit Two: Engine Removal, Disassembly, and Inspection
- Unit Three: Engine Repair, Assembly, and Installation
- Unit Four: Brake System Operation, Diagnosis, and Repair
- Unit Five: Drive Line Design, Operation and Repair

MECHANICAL AND AUTOMOTIVE STUDIES B20

Prerequisite – *Mechanical and Automotive Studies 10*

In Mechanics B20, students will gain specific knowledge of the operation, function and service of fuel systems. They will also gain specific knowledge of clutches, manual transmissions, transfer cases, and automatic transmissions. The six units covered include:

Unit One:	Safety Review, Tools, and Fasteners
Unit Two:	Fuel Systems
Unit Three:	Clutches
Unit Four:	Manual Transmissions
Unit Five:	Transfer Cases
Unit Six:	Automatic Transmissions

MECHANICAL AND AUTOMOTIVE STUDIES A30

Prerequisite – *Mechanical and Automotive Studies 10*

*The emphasis in this class is placed on developing knowledge and skills in the areas of electrical and electronic diagnosis and repair, as well as emission control systems and drivability issues. The three units covered include:

Unit One:	Safety, Tools and Fasteners
Unit Two:	Chassis Electrical Systems
Unit Three:	Charging and Starting Systems

MECHANICAL AND AUTOMOTIVE STUDIES B30

Prerequisite – *Mechanical and Automotive Studies 10*

The emphasis in this class is on developing knowledge and skills in the areas of suspension and steering systems, wheels, tires and wheel alignment. This course also examines axles, drive shafts and bearings. The four units covered are:

Unit One:	Suspension and Steering
Unit Two:	Tires, Wheels and Wheel Alignment
Unit Three:	Axles and Drive Shafts
Unit Four:	Bearings

PAA SURVEY 9: Applied Technology

(Construction / Mechanics / Welding)

PAA SURVEY 9: APPLIED TECHNOLOGY

****Prerequisite**** –None

This course emphasizes a 'hands-on' approach to learning. The students are guided through a variety of exercises utilizing techniques, equipment and materials in three different technical areas. The skills acquired will be of additional use to students who continue on to the pure courses such as Construction, Mechanics and Welding 10, 20 and 30.

The three modules covered are:

- Module One: Woods 9- Students learn the safe and proper use of hand tools and a limited selection of power tools. Students demonstrate their skills by building a small wood project.
- Module Two: Welding 9- Students learn the safe use of the Arc and Mig Welders. Basic welds are practiced to attain a reasonable degree of skill to complete a take home project.
- Module Three: Mechanics 9 – Students take apart and re-assemble a four stroke engine, learning the basics of engine operation and maintenance, as well as the safe use of tools and equipment

PAA SURVEY 9: Computer Technology

(Communication Media / Photography/Graphic Design)

PAA SURVEY 9: COMPUTER TECHNOLOGY

****Prerequisite**** –None

This course provides students with an opportunity to explore both Photography and Communication Media. Students will have a brief introduction to Photography and Graphic Arts design through the use of technology. They will have an overview of the Communication Media field that offers exciting and innovative ways to communicate through video, audio, and multimedia productions.

PAA SURVEY 9: Design Technology

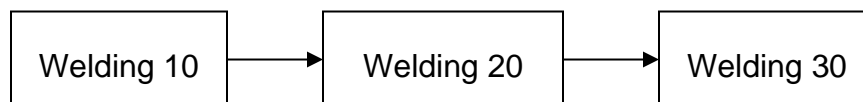
(Cooking / Cosmetology / Interior Design)

PAA SURVEY 9: DESIGN TECHNOLOGY

****Prerequisite**** –None

In this course students will complete three six-week rotations in the areas of foods, cosmetology and interior design. Students are introduced to topics that are covered in depth in Commercial Cooking and Advanced Baking courses, Cosmetology 10, 20 and 30 as well as in Interior Design 30.

WELDING



YAP is available in these courses.

WELDING 10

Prerequisite –None

Welding 10 introduces students to welding shop practices, equipment and safety. Students learn how to use all shop tools associated with cutting, grinding, drilling, threading and welding. Students spend the majority of class time learning how to arc and gas weld. Projects are produced for both arc and gas welding components. The five units covered include:

- Unit One: Shop Safety
- Unit Two: Shop Tools
- Unit Three: Arc Welding
- Unit Four: Oxy- Acetylene Welding
- Unit Five: Project Work

WELDING 20

Prerequisite –Welding 10

Welding 20 introduces students to vertical and horizontal position welds using both Arc and MIG welding. Students are also introduced to the cutting process using a gas torch and a plasma torch. This course offers exposure to new equipment and techniques. Students spend the majority of class time designing and producing their own projects. The eight units covered include:

- Unit One: Safety
- Unit Two: Terminology
- Unit Three: Basic Metallurgy
- Unit Four: Arc Welding
- Unit Five: MIG Welding
- Unit Six: Oxy-Acetylene cutting
- Unit Seven: Plasma Cutting
- Unit Eight: Projects

WELDING 30

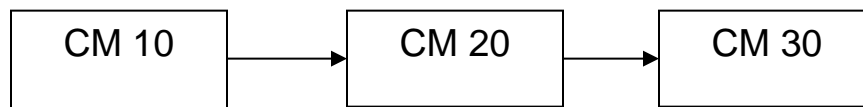
Prerequisite –Welding 20

Welding 30 is designed to allow students to continue to develop skills in producing advanced positional welds using MIG, Arc and Gas Welding. Further exposure is given to specialty welding processes and equipment. The majority of the course is spent in a hands-on learning environment with students designing and producing their own projects. The eight units covered include:

- Unit One: Safety
- Unit Two: Electrodes
- Unit Three: Welding Symbols
- Unit Four: Oxy-Acetylene Welding
- Unit Five: Oxy-Acetylene Cutting
- Unit Six: Arc Welding
- Unit Seven: MIG Welding
- Unit Eight: Projects

TECHNOLOGY STUDIES

COMMUNICATION MEDIA



COMMUNICATION MEDIA 10

****Prerequisite**** –None

Prepare for tomorrow today. This class offers exciting and innovative ways to communicate through video, audio, and multimedia productions. Career exploration and preparation will help students understand the challenges and opportunities presented by existing and developing technologies. The goals of this class are to enable students to utilize the tools of technology to enhance their knowledge and enhance their ability to be successful in their future. The seven units covered include:

- Unit One: Introduction to CM
- Unit Two: Beginning Video Production
- Unit Three: Digital Photography
- Unit Four: Beginning Multimedia Production
- Unit Five: Introductory Audio Production
- Unit Six: Special Effects (Optional)
- Unit Seven: Animation (Optional)

COMMUNICATION MEDIA 20

****Prerequisite**** –Communication Media 10 Preferred

This course increases students' understanding of important knowledge, skills, and abilities required in the creation of audio, video, and multimedia products. Students will be engaged in more complex processes than they experienced at Level 10, and will participate in one or more production projects. Post-production activities may be minimal at this level. Students will be expected to increase their understanding of all three of audio, video, and multimedia production.

- Unit One: Intermediate Video Production
- Unit Two: Intermediate Audio
- Unit Three: Intermediate Multimedia
- Unit Four: Intermediate Production
- Unit Five: Special Effects

COMMUNICATION MEDIA 30

****Prerequisite**** –Communication Media 20 Preferred

This course will consist of an advanced production project utilizing all previous knowledge in multimedia, audio and video. There will also be an intensive script writing study along with a look at future technological advances and animation. If available, a work-study component may be added. The five units covered include:

- Unit One: Advanced Production Project
- Unit Two: Software and Technology Research
- Unit Three: Scriptwriting
- Unit Four: Independent Study
- Unit Five: Animation

PHOTOGRAPHY

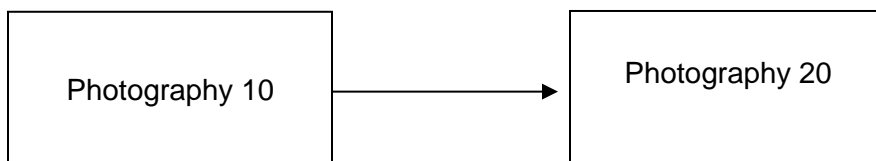


PHOTO-GRAPHICS 10

Pre-requisite - None

This course introduces students to Photography and Graphic Arts as it relates to business and industry today. Students will examine the fundamentals of photography and graphic arts design through the use of technology and manipulation of other resources. Links to personal use and career pathways are explored.

PHOTOGRAPHY 20

Pre-requisite - Photo-Graphics 10 Preferred

This course deals with the fast-paced world of Digital Photography and Digital Manipulation/Graphic Design. The following core modules make up the course.

Module 2B	Capture Images that demonstrate advanced camera functions and controls
Module 3B	Utilize and extend skills from Module 3A to capture images of increasing quality and refinement
Module 6B	Demonstrate an understanding of selecting various lenses and focal lengths to create a variety of effects on the image
Module 11B	Continue to develop proficiency with software to improve digital images
Module 12B	Discuss and reflect on the need for societal standards (legal, ethical, and community norms and values) and cultural sensitivity in photography
Module 13B	Continue to develop skills using basic image editing software to manipulate photographs for a defined purpose
Module 14	Develop abilities to critique photographic work as a means of evaluation and self-reflection of personal, peer, and public work
Module 15A	Explore and demonstrate a variety of presentation formats that photographers use to display work
Module 16	Demonstrate skills and processes used in commercial photography to promote a product or service
Module 21A	Recognize how school-based skills development will be used to meet workplace expectations